



# West Valley Freeways

Growth • Progress • Challenges

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State of Arizona

Department of Transportation

March 2008



## Maricopa County Regional Transportation Plan (RTP)

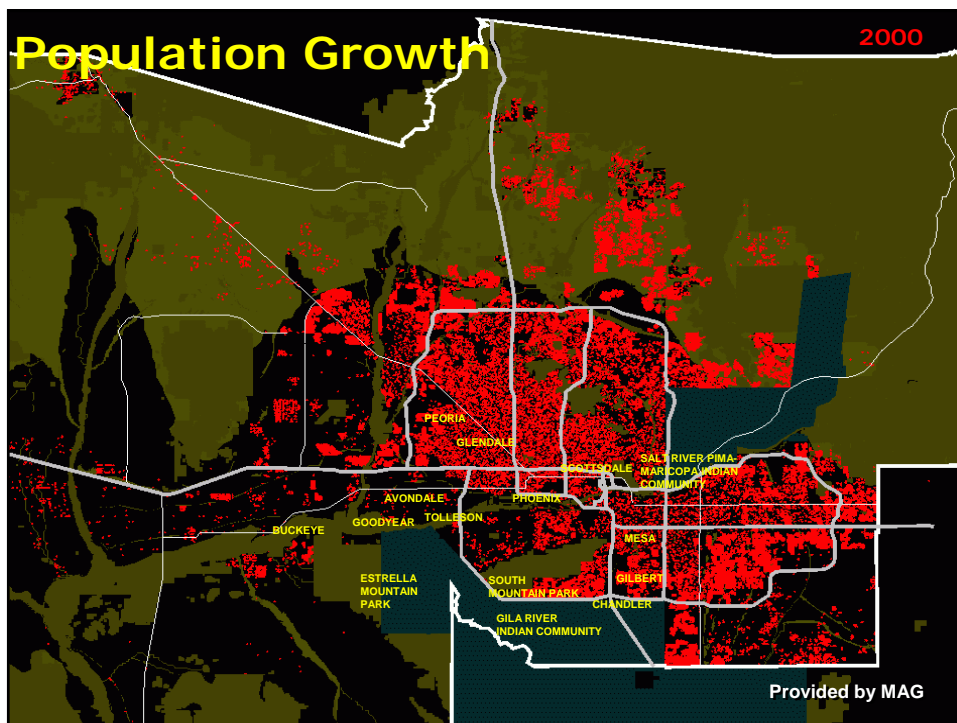
- In 2003, the Maricopa Association of Governments (MAG) approved \$15.8 billion Regional Transportation Plan
- In 2004, voters approved Prop. 400
  - Provided funding needed to implement the Regional Transportation Plan
  - Extension of 1985 sales tax

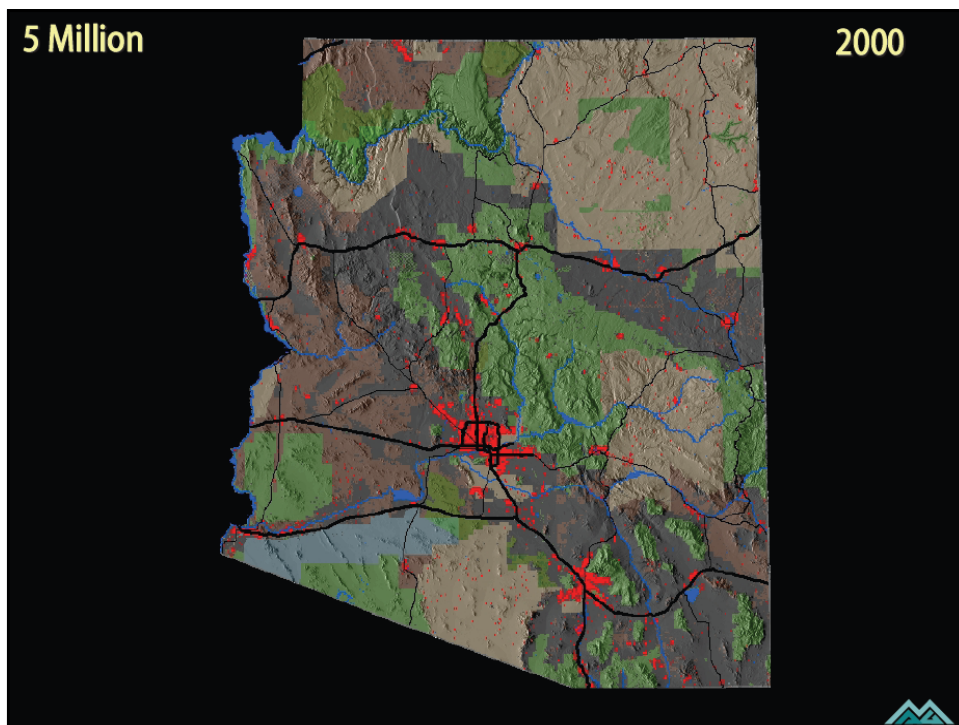
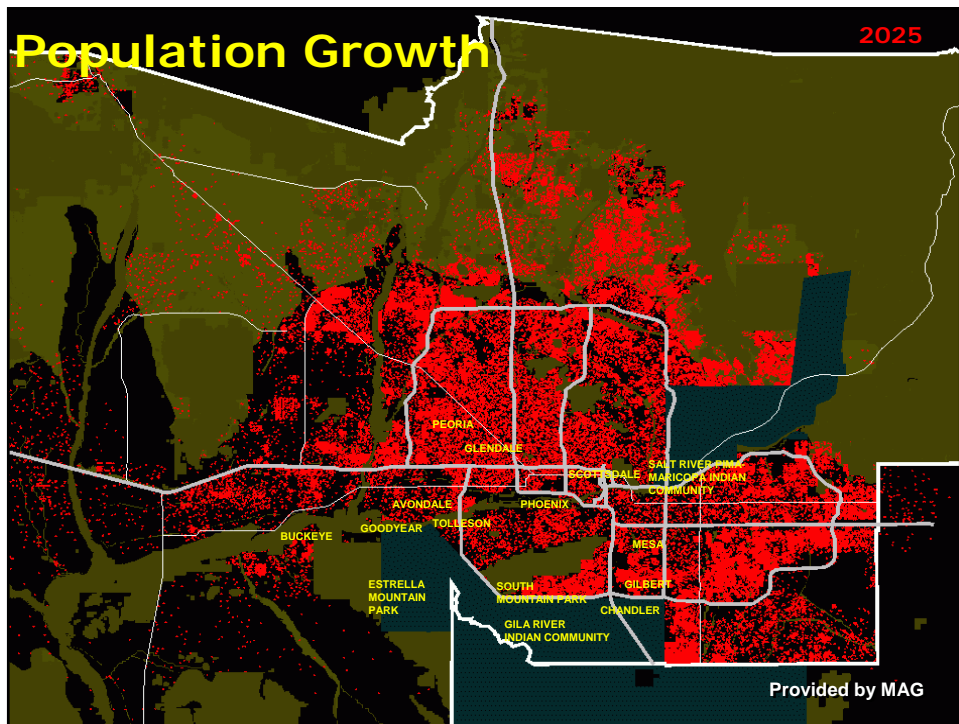




## What is the RTP?

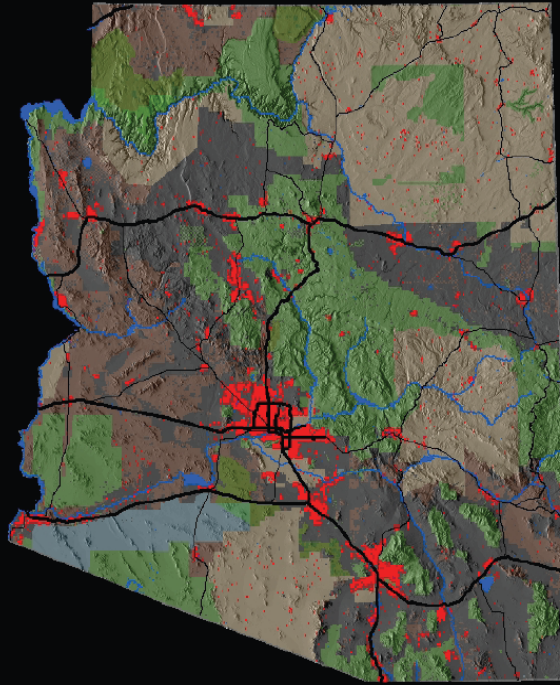
- A partnership between ADOT, MAG, local cities, Valley Metro and Valley Metro Rail to:
  - Manage regional transportation programs
  - Coordinate project implementation
  - Develop finance strategies
  - Foster communication and public involvement
  - Facilitate regional collaboration





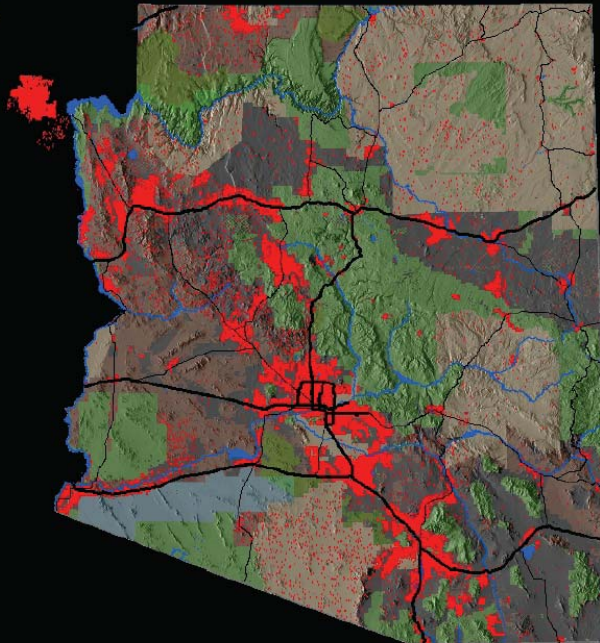
10 Million

2020

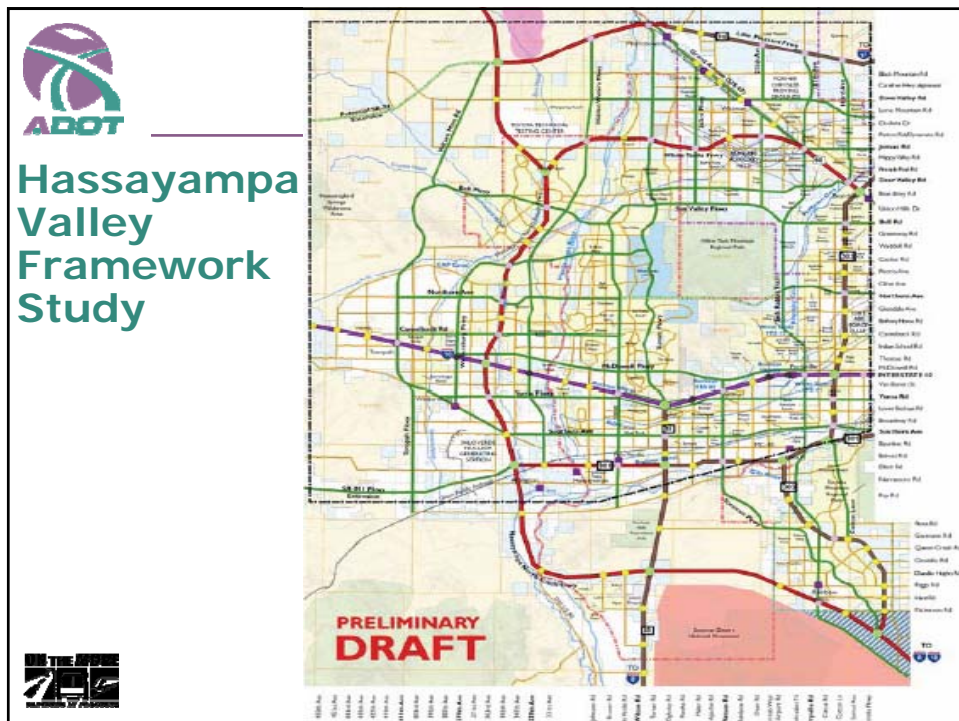
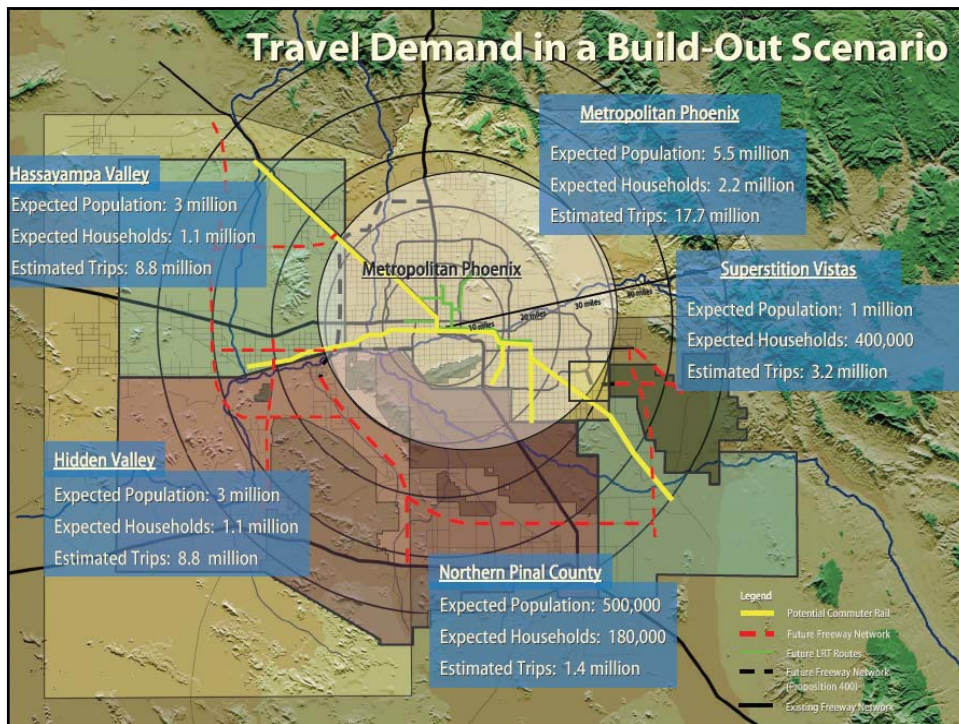


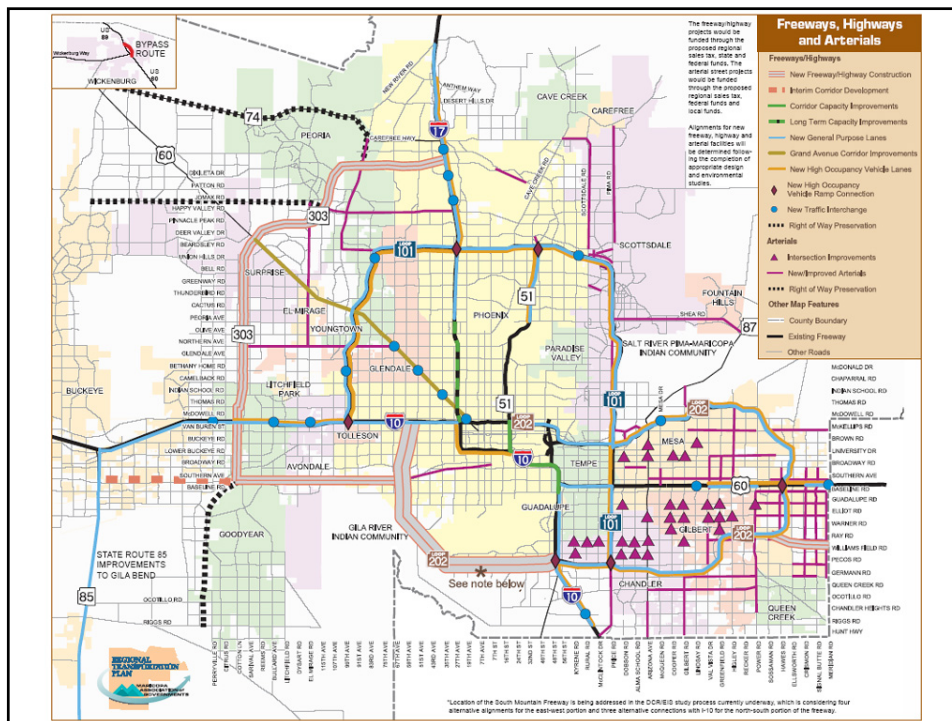
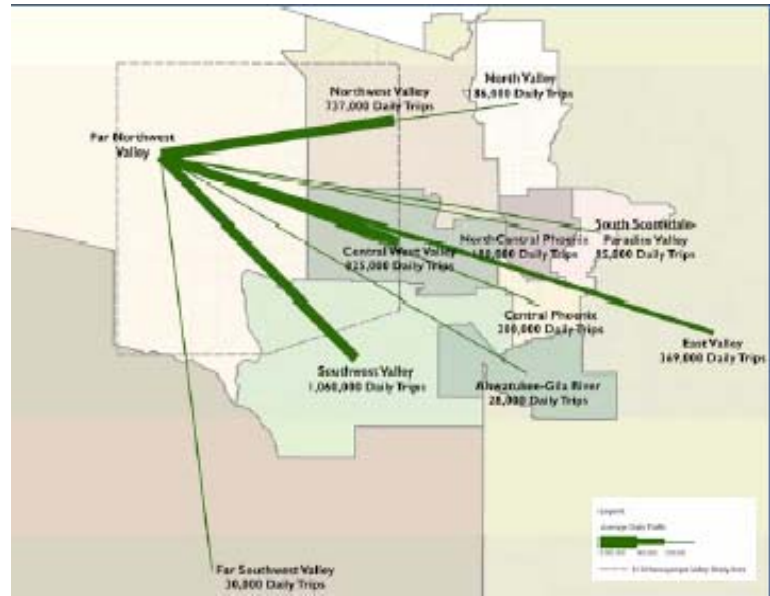
16 Million

2050











## **Maricopa Association of Governments' Role**

- Develop RTP and conduct regional transportation planning
- Set priorities for scheduling and funding of projects
- Approve accelerations and cost changes to RTP
- Conduct air quality conformity analysis on all regional transportation projects



## **Arizona Department of Transportation's Role**

- Implement RTP
- Conduct studies to identify/evaluate alternatives
- Coordinate environmental document
- Acquire rights-of-way
- Design and construct freeways
- Maintain freeways



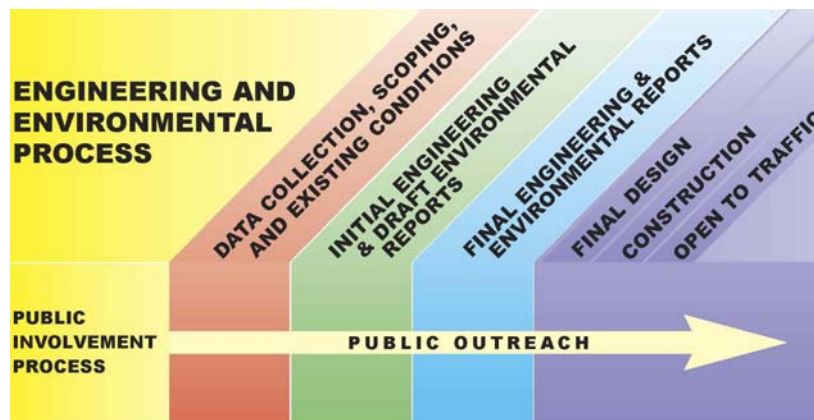


## Federal Highway Administration's Role

- Serve as lead federal agency
- Participate in study process
- Provide document review and approval
- Provide funding source



## Project Development Process







## Studies in the West Valley

- Interstate 10 Widening
- State Route 801 (East and West)
- Loop 303 (North and South)
- Grand Avenue (Loop 101 to Loop 303)
- South Mountain Freeway



## Why are these studies needed?

- Growth in the West Valley
- Current and future traffic demand



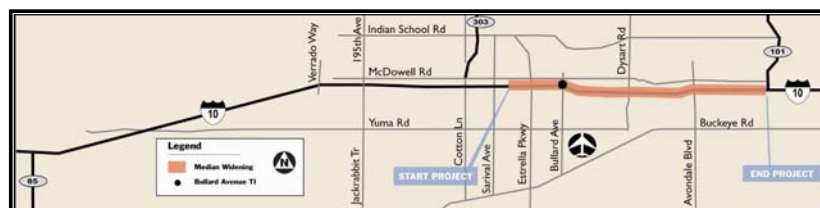


## Interstate 10 Improvements

- Six projects over the next five years:
  - Median Widening, Sarival Avenue to Loop 101
  - Bullard Avenue Traffic Interchange
  - Widening (STAN), Verrado Way to Sarival Avenue
  - Outside Widening, Sarival Avenue to Dysart Road
  - Inside and Outside Widening, Loop 101 to Interstate 17
  - Realignment, Citrus Road to Sarival Avenue



## Interstate 10 Median Widening

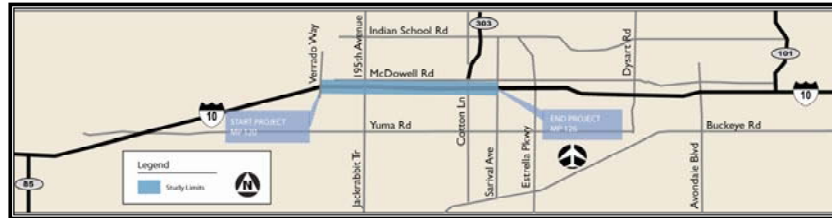


- Sarival Avenue to Loop 101
  - Adding one general purpose lane and one high-occupancy vehicle lane in each direction in the existing median
  - Construction has started
- Bullard Avenue Traffic Interchange
  - Adding on-ramps and off-ramps in each direction
  - Currently under construction





## I-10 STAN Project



- STAN - Statewide Transportation Acceleration Needs
- I-10 – Verrado Way to Sarival Avenue
  - Adding one general purpose lane in each direction in the existing median
- Construction scheduled for early 2009



## I-10 Outside Widening



- Sarival Avenue to Dysart Road
  - Adding one general purpose lane and one auxiliary lane in each direction adjacent to existing outside lanes
  - Construction scheduled to begin in early 2009
  - Additional lanes along I-10 may be constructed to accommodate future I-10/Loop 303 interchange





## I-10 Widening

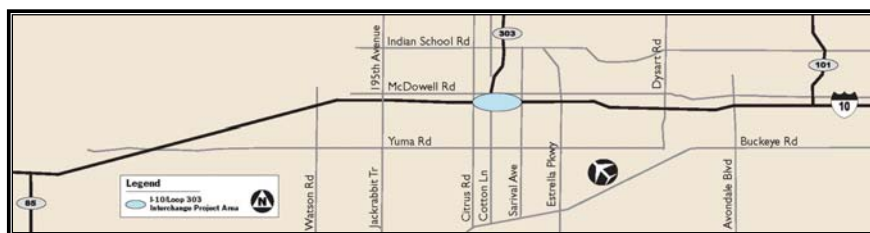


### ■ Loop 101 to I-17

- Beginning study to evaluate additional lanes on both inside and outside of existing lanes
- Construction programmed for FY 2010
- Coordinating with proposed South Mountain Freeway improvements and Interstate 10 Transit Study



## Interstate 10 Realignment



### ■ Citrus Road to Sarval Avenue

- Realigned approximately 200' north of existing I-10 to facilitate construction of I-10/Loop 303 Traffic Interchange
- Construction set for FY 2011







## I-10 Median Widening



- State Route 85 to Verrado Way
  - Adding one general purpose lane in each direction in the existing median
  - Construction scheduled to begin in 2023
  - Local and state officials are exploring opportunities to advance construction of these improvements



## Other I-10 Improvements

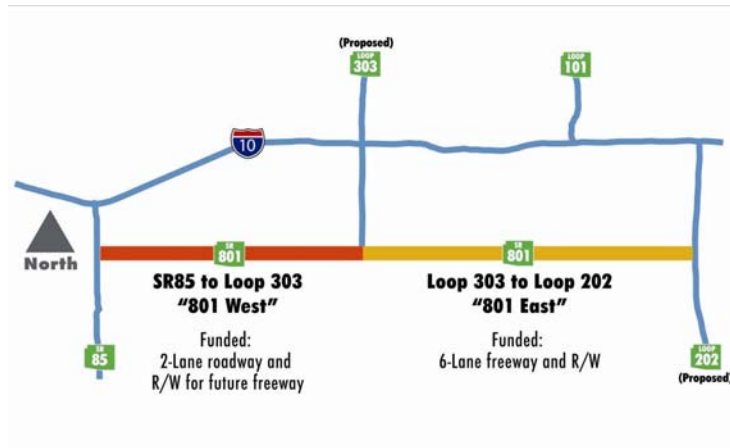


- Perryville Road Traffic Interchange
  - RTP Phase II (2011-2015)
- El Mirage Road Traffic Interchange
  - RTP Phase IV (2021-2025)





## SR 801 – Two Studies



## State Route 801 East Study Area & Corridors

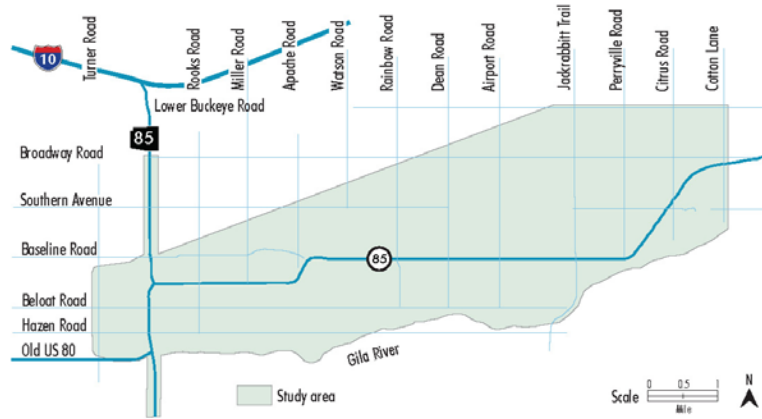


- Evaluating new freeway between Loop 303 and Loop 202
- Preparing a DCR, EA, and Implementation Plan
- Funded in Phase IV of the RTP (2021-2025)





## SR 801 West Study Area

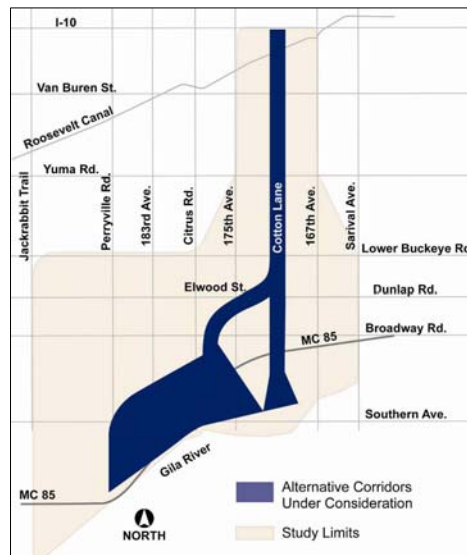


The study team is currently developing preliminary corridors for SR 801 West.



## Loop 303 (south of I-10)

- I-10 to SR 801
- Two alternative corridors currently under consideration





## Loop 303, North of I-10

- Future half-loop around West Valley
- Phased funding for a six-lane freeway
- Development to occur in stages:
  - Happy Valley Parkway to I-17 (construct interim roadway)
  - US 60/Grand Ave. to I-17 (complete to six lanes)
  - I-10 to US 60 (complete to six lanes)
- Interim roadway (I-10 to I-17) by 2010
- Full completion by 2017



### Loop 303 Corridor Development



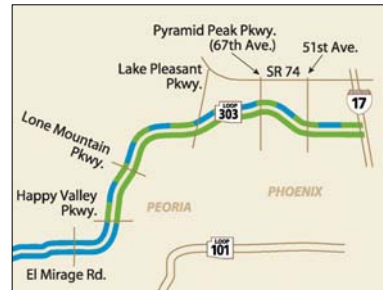




## Loop 303, Happy Valley Parkway to I-17

- Interim development

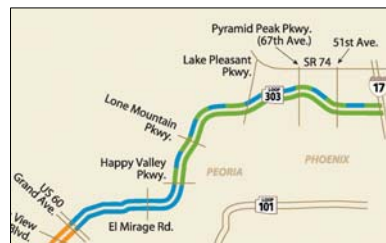
- 14-mile, interim four-lane divided roadway
- Includes interim interchange with I-17
- \$200 million
- Final design in progress
- Construction scheduled to start in 2008 and be completed by 2010



## Loop 303, US 60 to I-17

- Second stage project to complete to a 20-mile, six-lane divided freeway in 2017

- Interchanges planned at major arterial streets (none planned between US 60 and El Mirage Road)
- Freeway-to-freeway interchange at I-17 and Loop 303
- \$305 million in RTP Phase II (2011-2015)



*Project pending outcome of environmental process.*



## Loop 303, I-10 to US 60

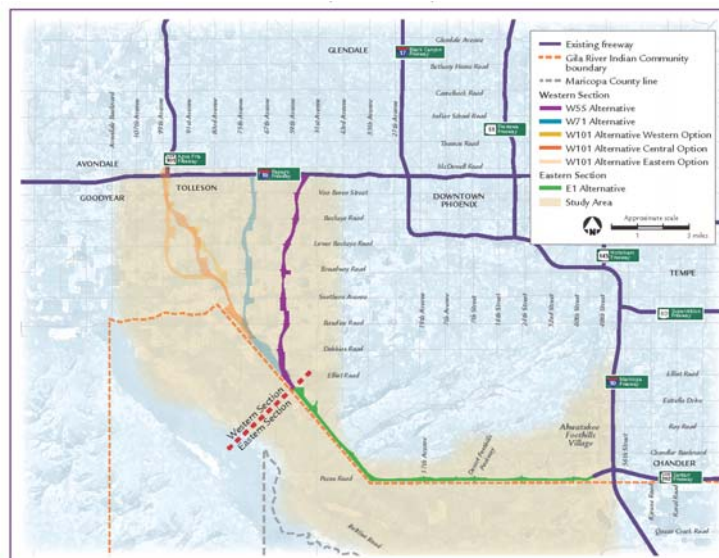
- Projects to convert existing 16-mile, two-lane roadway to a six-lane divided freeway
  - Interchanges at major arterial streets
  - Multilevel interchange at Loop 303 and US 60
  - Freeway-to-freeway interchange with I-10
  - \$545 million in RTP Phase II (2011-2015)
  - Completion anticipated in 2017



*Projects pending outcome of environmental process.*



## South Mountain Freeway





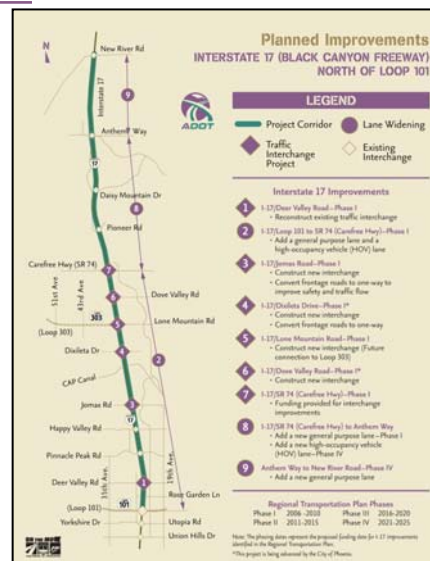
## Study Update

- ADOT announced 55<sup>th</sup> Avenue alignment as the preliminary preferred alternative in Summer 2006
- Citizens Advisory Team (CAT) is currently discussing the Pecos Road Alternative
- Final CAT recommendation will be for the build or no-build alternative
- Draft Environmental Impact Statement scheduled for public review in 2008



## I-17 Improvements Loop 101 to New River

- \$300 million, 20-year regional transportation fund investment will provide:
  - Increased travel lane capacity
  - Operational improvements
  - Drainage improvements





## **I-17 Construction – Loop 101 to Carefree Highway**

- Three I-17 traffic interchanges to be completed by mid-2008
  - New interchanges at Jomax and Dixileta
  - Carefree Highway interchange to be reconstructed with innovative loop ramps
- Two mainline widening projects to start in early 2008 – completion by late 2009
  - Loop 101 to Jomax Road;  
Jomax Road to Carefree Highway
  - Add a new general purpose and carpool lane each way



## **I-17 Construction, Loop 101 to Carefree Highway**

- Other improvements to be completed by late 2009:
  - Reconstruct interchange at Deer Valley Road
  - New interchange at Lone Mountain Road (Interim connection with Loop 303)
  - New interchange at Dove Valley Road
- Two travel lanes to be maintained each direction during peak hours
  - Some temporary closures to be scheduled during overnight hours







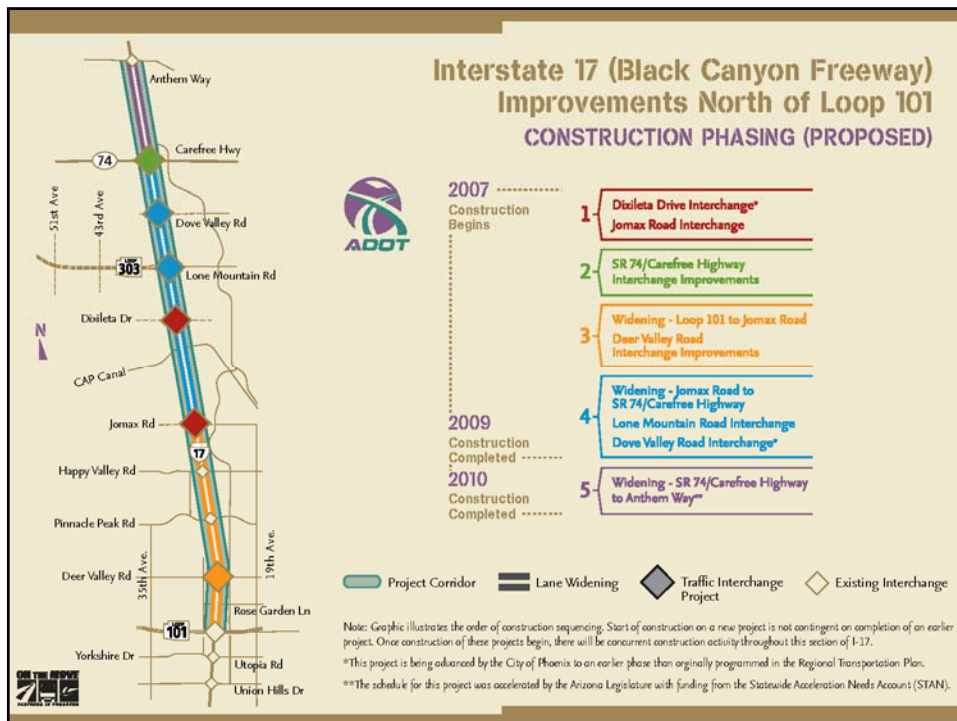
## I-17 – Carefree Highway to New River

- Carefree Highway to Anthem Way

- Construct a new general purpose lane each direction by 2010  
(advanced from Phase IV by STAN)
- Add a new carpool lane in RTP Phase IV  
(2021-2026)

- Anthem Way to New River

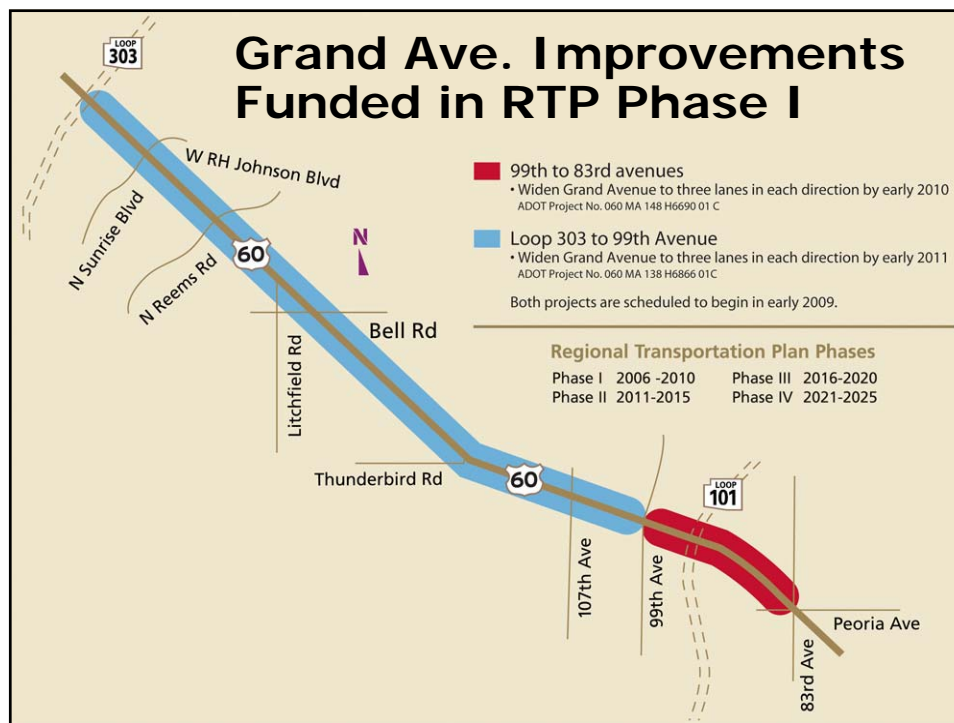
- Add a new general purpose lane in RTP Phase IV (2021-2026)





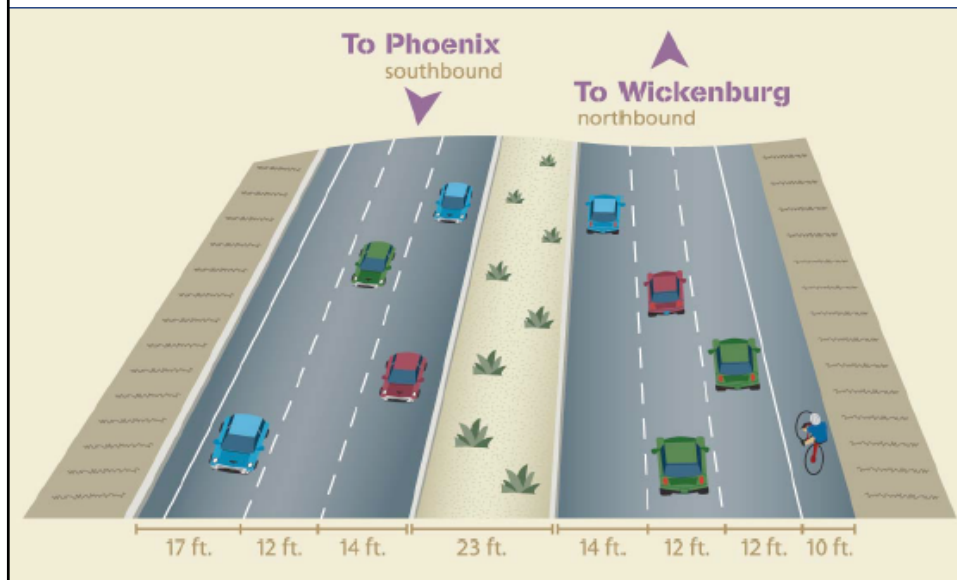
## US 60 / Grand Avenue

- Upcoming Construction
  - 83rd Avenue to 99th Avenue
    - Add one lane in each direction
  - 99th Avenue to Loop 303
    - Add one lane in each direction
- Widening will generally occur in the established right of way (median widening)

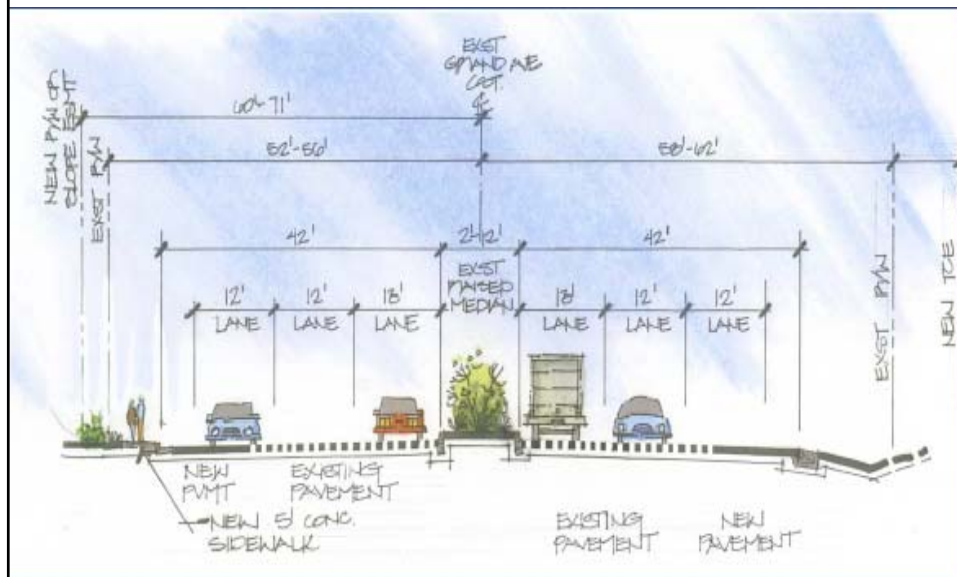




## US 60 / Grand Avenue

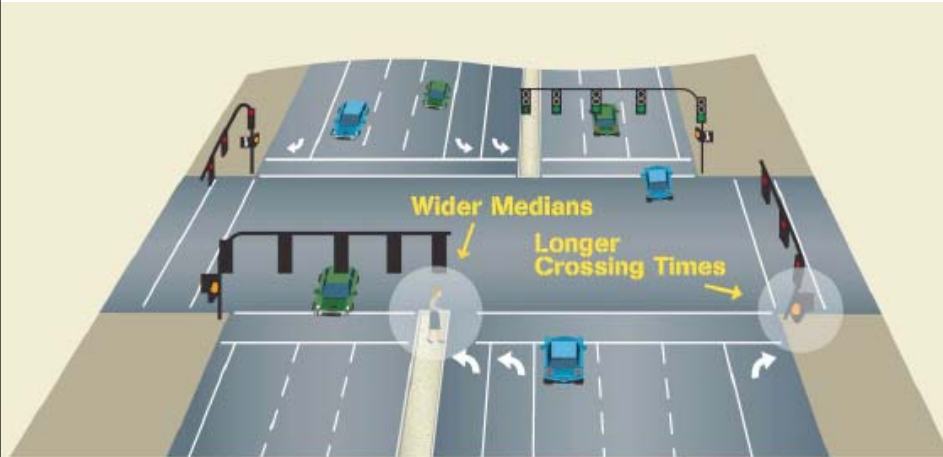


## US 60 / Grand Avenue





## US 60 / Grand Avenue



## US 60 / Grand Avenue

- Feasibility Study
  - Evaluating potential projects for RTP Phase II (2015), Loop 303 to Loop 101.
  - \$64 million available
  - Focus: Improve Safety and Traffic Flow.







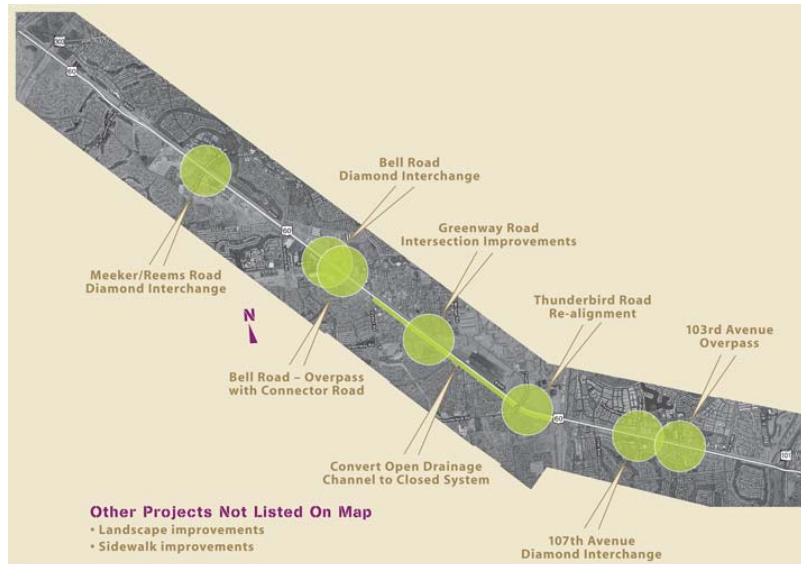
## US 60 / Grand Avenue

### ■ Feasibility Study - Potential Projects

- Meeker/Reems Road
- Bell Road
- Greenway Road
- Thunderbird Road
- 107th Avenue
- 103rd Avenue
- Open drainage system

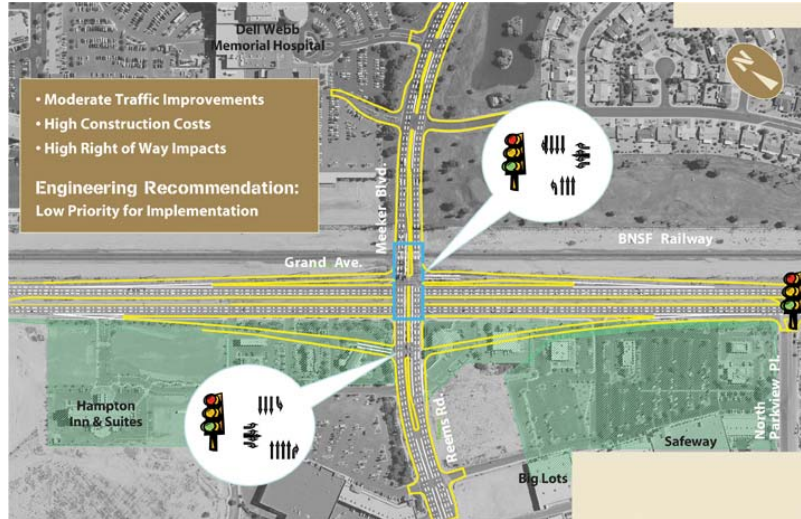


## Grand Ave. Potential Projects Identified for RTP Phase II





## Meeker / Reems Rd. – Diamond Interchange



Notes: 1) Proposed project alternative for discussion purposes only.  
2) Areas highlighted in green indicate potential property impacts.



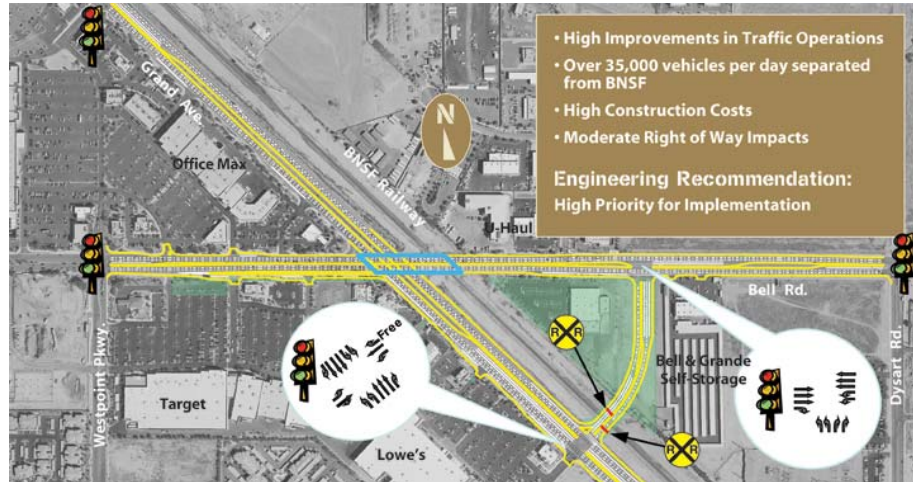
## Bell Rd. Diamond Type Interchange



Notes: 1) Proposed project alternative for discussion purposes only.  
2) Areas highlighted in green indicate potential property impacts.



## Bell Rd. – Overpass with Connector Road



Notes: 1) Proposed project alternative for discussion purposes only.  
2) Areas highlighted in green indicate potential property impacts.



## Greenway Rd. Intersection Improvements



Notes: 1) Proposed project alternative for discussion purposes only.





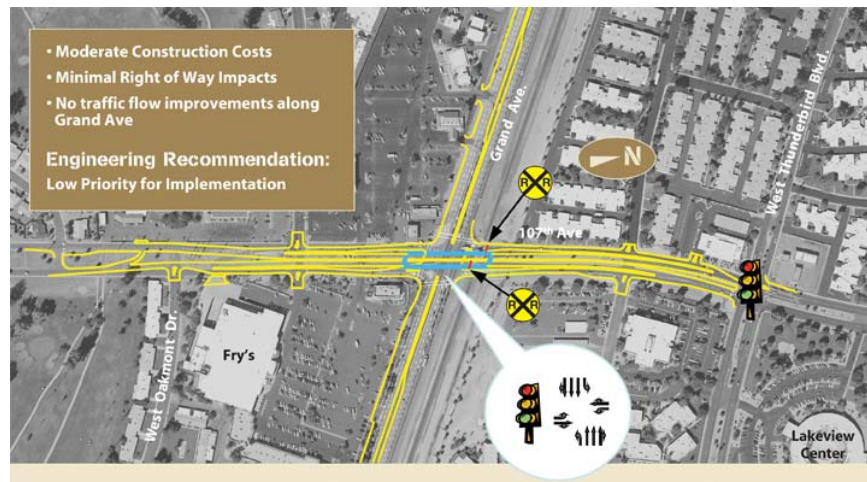
## Thunderbird Rd. Realignment



Notes: 1) Proposed project alternative for discussion purposes only.  
2) Areas highlighted in green indicate potential property impacts.



## 107<sup>th</sup> Ave. – Diamond Type Interchange



Notes: 1) Proposed project alternative for discussion purposes only.  
2) Areas highlighted in green indicate potential property impacts.



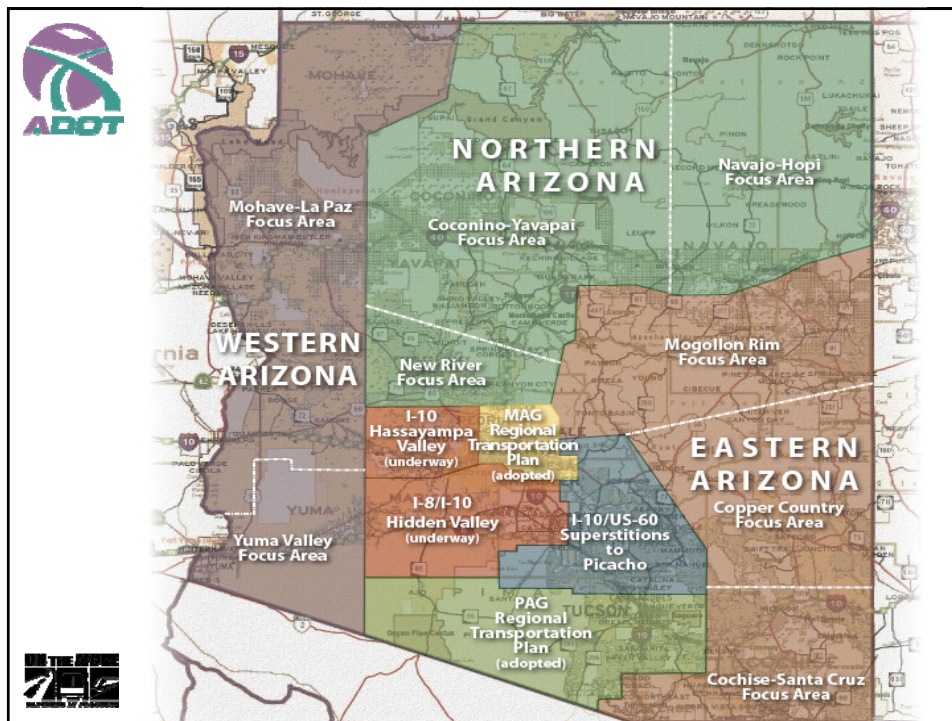
## 103<sup>th</sup> Ave. – Overpass

- Moderate Construction Costs
- Cost sharing with BNSF Railway
- Minimal Right of Way Impacts
- Moderate improvements in traffic flow

Engineering Recommendation:  
High Priority for Implementation



- Notes: 1) Proposed project alternative for discussion purposes only.  
2) Areas highlighted in green indicate potential property impacts.





## For More Information

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Visit ADOT Web Site:

[www.azdot.gov/ValleyFreeways](http://www.azdot.gov/ValleyFreeways)

### **ADOT Community Relations Team**

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## Discussion

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# Thank You





